



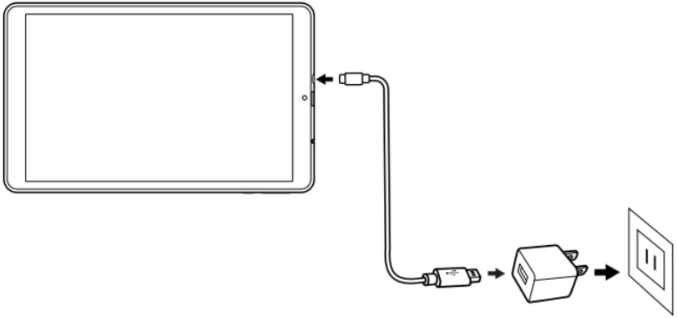


Exhibit 9: U.S. Patent No. 9,292,066

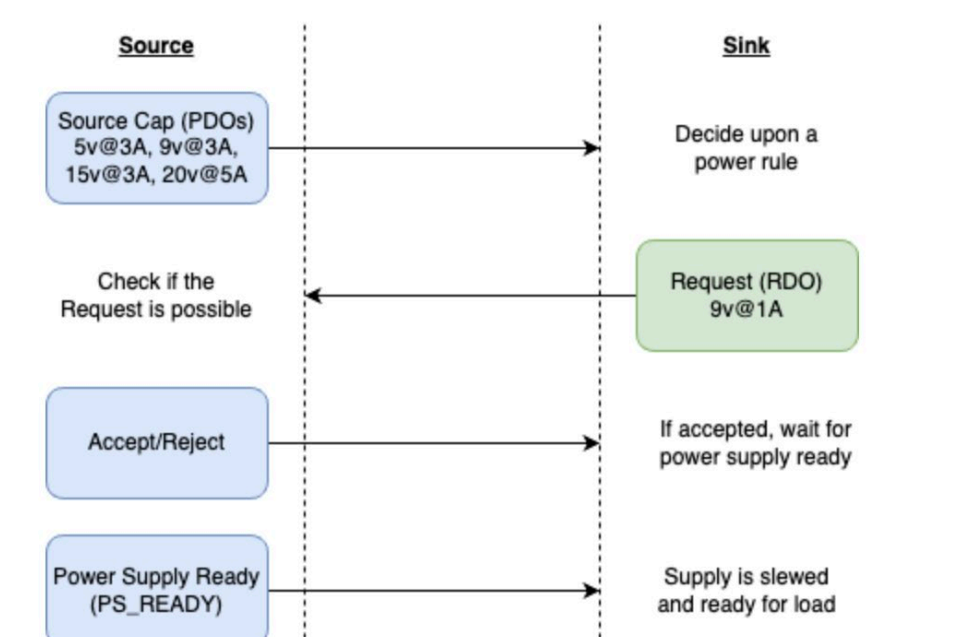
Claims	Identification
<p>1[pre] A method for an upstream device to configure a plurality of lines in a cable, the method comprising:</p>	<p>To the extent the preamble is limiting, Acer-branded devices perform a method for an upstream device to configure a plurality of lines in a cable.</p> <div data-bbox="520 354 1079 591">  </div> <p data-bbox="506 618 1094 651">Acer USB Type-C Dock D501 - ADK020</p> <p data-bbox="506 662 783 683">Part Number: GP.DCK11.00E</p> <p data-bbox="506 690 871 716">★★★★★ 2.0 (1) Write a review</p> <ul data-bbox="506 776 1373 1024" style="list-style-type: none"> • Certified by Works With Chromebook • Gigabit Ethernet connectivity • 1 x USB Type C with power charging; 4 x USB 3.2 Gen 1 Type-A ports; 2 x USB 3.1 Gen 2 Type-A Ports • Supports up to 3 displays using 1 x HDMI 2.0/DisplayPort 1.4; 1 x HDMI 2.0; 1 x DisplayPort 1.4 • 1 x 3.5mm Audio port <div data-bbox="722 1187 1050 1219"> <p>Universal USB-C Dock</p> </div> <p data-bbox="606 1239 1167 1328"> Charge your Chromebook. Transfer data, extend your display, and enable peripherals such as speakers or Gigabit Ethernet with just single USB-C cable. The docking station's USB-C Power Delivery can charge your laptop with up to 60W of power through the USB-C connection. </p> <div data-bbox="1213 1045 1864 1474">  </div>

Claims	Identification														
	<div data-bbox="522 209 1959 776">  <p>Acer Chromebook Plus 515 - CB515-2H-31NY Part Number: NX.KPBAA.001 ★★★★★ 3.0 (2) Write a review</p> <p>BUILD A BUNDLE AND SAVE Save 40% on select accessories when bundling.</p> <p>ADD ACER CARE TO YOUR ORDER Add Acer Care extended service to your order for additional coverage and piece of mind.</p> <p>Not eligible for the EXTRA50FF promotion.</p> <ul style="list-style-type: none"> • Chrome OS • 12th Generation Intel® Core™ i3 6-Core Processor; 1.2GHz with Intel® Turbo Boost Technology 2.0 • 15.6" IPS Full HD Widescreen ComfyView LED-backlit Display • 128GB Universal Flash Onboard Storage • Intel® UHD Graphics • 8GB LPDDR5X Onboard Memory </div> <div data-bbox="667 781 1814 997"> <p>Network and Communication</p> <table> <tr> <td>Wireless LAN Manufacturer</td><td>Intel®</td></tr> <tr> <td>Wireless LAN Model</td><td>6E AX211 supports dual-stream Wi-Fi in the 2.4GHz, 5GHz and 6GHz bands, including 2x2 MU-MIMO Technology</td></tr> <tr> <td>Wireless LAN Standard</td><td>IEEE 802.11 a/b/g/n/ac/ax</td></tr> <tr> <td>Bluetooth Standard</td><td>Bluetooth® 5.1 or above</td></tr> </table> </div> <div data-bbox="667 1002 1814 1128"> <p>Battery Information</p> <table> <tr> <td>Battery Chemistry</td><td>Lithium Ion (Li-Ion)</td></tr> <tr> <td>Maximum Battery Run Time</td><td>10 hours</td></tr> </table> </div> <div data-bbox="667 1133 1814 1227"> <p>Miscellaneous</p> <table> <tr> <td>Package Contents</td><td>Laptop, USB Type-C AC Adapter, Power Cord and Protective Sleeve</td></tr> </table> </div> <p>See, e.g., <i>Acer USB Type-C Dock D501 - ADK020</i>, Acer, https://store.acer.com/en-us/acer-usb-type-c-dock-d501-adk020?gad_source=1&gclid=EAIaIQobChMI3uLs-quphAMVmgYtBh23VQwhEAQYASABEGK-nPD_BwE (last visited Mar. 7, 2024); <i>Acer USB Type-C Dock D501 – Certified by Works With Chromebook</i>, Acer, https://www.acer.com/us-en/accessories/for-chromebooks/acer-usb-type-c-dock-501 (last visited Mar. 7, 2024); <i>Acer Chromebook Plus 515 - CB515-2H-31NY</i>, Acer, https://store.acer.com/en-us/acer-chromebook-plus-515-cb515-2h-31ny (last visited Mar. 8, 2024).</p>	Wireless LAN Manufacturer	Intel®	Wireless LAN Model	6E AX211 supports dual-stream Wi-Fi in the 2.4GHz, 5GHz and 6GHz bands, including 2x2 MU-MIMO Technology	Wireless LAN Standard	IEEE 802.11 a/b/g/n/ac/ax	Bluetooth Standard	Bluetooth® 5.1 or above	Battery Chemistry	Lithium Ion (Li-Ion)	Maximum Battery Run Time	10 hours	Package Contents	Laptop, USB Type-C AC Adapter, Power Cord and Protective Sleeve
Wireless LAN Manufacturer	Intel®														
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Battery Chemistry	Lithium Ion (Li-Ion)														
Maximum Battery Run Time	10 hours														
Package Contents	Laptop, USB Type-C AC Adapter, Power Cord and Protective Sleeve														

Claims	Identification										
	<div data-bbox="1268 139 1955 228"> <p>Acer Iconia Tab M10 Tablet - M10-11-K5N0</p> </div> <div data-bbox="1268 245 1701 305"> <p>Part Number: NT.LFUAA.001 ★★★★★ 5.0 (1) Write a review</p> </div> <div data-bbox="606 289 1155 630">  </div> <div data-bbox="1268 378 1858 651"> <ul style="list-style-type: none"> • Android • MediaTek MT8183C Cortex-A73/A53 multi-processor • Integrated graphics • 10.1" WUXGA (1920 x 1200) IPS touchscreen display • 4 GB standard memory; 128 GB Flash storage • Wi-Fi 5, Bluetooth 5.2 & GPS </div> <div data-bbox="667 667 980 698"> <p><i>Network & Communication</i></p> </div> <div data-bbox="667 717 1169 784"> <table border="1"> <tr> <td>Wireless LAN Standard</td><td>IEEE 802.11 a/b/g/n/ac/ax</td></tr> <tr> <td>Bluetooth Standard</td><td>Bluetooth 5.0 & GPS</td></tr> </table> </div> <div data-bbox="667 792 756 823"> <p><i>Battery</i></p> </div> <div data-bbox="667 842 1127 909"> <table border="1"> <tr> <td>Battery Chemistry</td><td>Lithium Ion (Li-Ion)</td></tr> <tr> <td>Maximum Battery Run Time</td><td>9 hours</td></tr> </table> </div> <div data-bbox="667 924 833 954"> <p><i>Miscellaneous</i></p> </div> <div data-bbox="667 974 1570 1000"> <table border="1"> <tr> <td>Package Contents</td><td>Iconia Tab M10 Tablet; USB Type-C Adapter; Power Cord; Transparent Bumper Case</td></tr> </table> </div> <p>See, e.g., <i>Acer Iconia Tab M10 Tablet - M10-11-K5N0</i>, Acer, https://store.acer.com/en-us/acer-iconia-tab-m10-tablet-m10-11-k5n0 (last visited Mar. 8, 2024).</p> <div data-bbox="716 1130 940 1153"> <p>ACER ANSWERS > TABLET</p> </div> <div data-bbox="716 1187 1617 1299"> <h2>Acer Android Tablet USB Type-C Port Features</h2> </div> <div data-bbox="716 1310 1113 1334"> <p>By Acer-Chantal Last Updated: Nov 1, 2023</p> </div> <div data-bbox="716 1369 1764 1437"> <p>Acer Iconia A10, M10 and P10 Android tablets include a multi-purpose USB type-C port to allow for charging the tablet or connecting to a computer to transfer data.</p> </div>	Wireless LAN Standard	IEEE 802.11 a/b/g/n/ac/ax	Bluetooth Standard	Bluetooth 5.0 & GPS	Battery Chemistry	Lithium Ion (Li-Ion)	Maximum Battery Run Time	9 hours	Package Contents	Iconia Tab M10 Tablet; USB Type-C Adapter; Power Cord; Transparent Bumper Case
Wireless LAN Standard	IEEE 802.11 a/b/g/n/ac/ax										
Bluetooth Standard	Bluetooth 5.0 & GPS										
Battery Chemistry	Lithium Ion (Li-Ion)										
Maximum Battery Run Time	9 hours										
Package Contents	Iconia Tab M10 Tablet; USB Type-C Adapter; Power Cord; Transparent Bumper Case										

Claims	Identification
	<p>Charging your tablet</p> <ol style="list-style-type: none"> 1. Plug the provided charging cable into the micro USB port on your device. 2. Then plug the USB connector of the charging cable into the 10 w AC adapter block. 3. Finally, plug the AC adapter block into a wall outlet.  <p>Your device is now connected to the wall outlet and will start charging.</p> <p>See also, e.g., Acer-Chantal, <i>Acer Android Tablet USB Type-C Port Features</i>, Acer (Nov. 1, 2023), https://community.acer.com/en/kb/articles/16561-acer-android-tablet-usb-type-c-port-features.</p>
<p>1[a] the upstream device placing a first voltage on a first one of the lines, the first one of the lines traditionally specified to supply power;</p>	<p>Acer-branded devices implementing the USB Type-C specification include the upstream device placing a first voltage on a first one of the lines, the first one of the lines traditionally specified to supply power, for example by applying a first voltage on the VBUS pin:</p> <p>4.2.4 Power and Ground Pins</p> <p>VBUS</p> <p>These pins are for USB cable bus power as defined by the USB specifications. VBUS is only present when a Source-to-Sink connection across the CC channel is present – see Section 4.5.1.2.1. Refer to Section 4.4.2 for the functional requirements for VBUS.</p> <p>Universal Serial Bus Type-C Cable and Connector Specification Release 2.3 at 144; Release 2.0 at 139.</p>

Claims	Identification
	<p>4.4.2 VBUS</p> <p>The allowable default range for VBUS as measured at the Source receptacle shall be as defined by the USB 2.0 and USB 3.2 specifications. For USB4, the USB 3.2 specification is used for this requirement. NOTE that due to higher currents allowed, legacy devices may experience a higher voltage (up to 5.5V maximum) at light loads.</p> <p>The Source's USB Type-C receptacle <u>VBUS pin shall remain unpowered and shall limit the capacitance</u> between VBUS and GND as specified in Table 4-2 until a Sink is attached. The VBUS pin shall return to the unpowered state when the Sink is detached. See Table 4-32 for VBUS timing values. Legacy hosts/chargers</p> <p>Universal Serial Bus Type-C Cable and Connector Specification Release 2.3 at 144; Release 2.0 at 141.</p>
<p>1[b] the upstream device grounding a second one of the lines, the second one of the lines traditionally specified to be a ground line;</p>	<p>Acer-branded devices implementing the USB Type-C specification include the upstream device grounding a second one of the lines, the second one of the lines traditionally specified to be a ground line for example by utilizing a ground pin:</p> <p>4.2.4 Power and Ground Pins</p> <p>VBUS These pins are for USB cable bus power as defined by the USB specifications. VBUS is only present when a Source-to-Sink connection across the CC channel is present – see Section 4.5.1.2.1. Refer to Section 4.4.2 for the functional requirements for VBUS.</p> <p>VCONN VCONN is applied to the unused CC pin to supply power to the local plug. Refer to Section 4.4.3 for the functional requirements for VCONN.</p> <p><u>GND</u> <u>Return current path.</u></p> <p>Universal Serial Bus Type-C Cable and Connector Specification Release 2.3 at 144; Release 2.0 at 139.</p>
<p>1[c] the upstream device receiving a request from a downstream device for a second voltage, the second voltage for supplying power, on a third one of the lines, the third one of the lines</p>	<p>Acer-branded devices implementing the USB Type-C specification include the upstream device receiving a request from a downstream device for a second voltage, the second voltage for supplying power, on a third one of the lines, the third one of the lines traditionally specified to convey data, for example, because the USB Type-C specification supports requests for additional power (a second voltage) via the VCONN pin. Specifically, the upstream device (source) receives a request from the downstream devices (sink) via the following flow:</p>

<div data-bbox="105 100 468 214"> Claims traditionally specified to convey data; </div>	<div data-bbox="468 100 1986 847"> Identification  <pre> sequenceDiagram participant Source participant Sink Note over Source: Source Cap (PDOs) 5v@3A, 9v@3A, 15v@3A, 20v@5A Note over Sink: Decide upon a power rule Note over Sink: Request (RDO) 9v@1A Note over Source: Check if the Request is possible Note over Source: Accept/Reject Note over Sink: If accepted, wait for power supply ready Note over Source: Power Supply Ready (PS_READY) Note over Sink: Supply is slewed and ready for load </pre> <p>The diagram illustrates the Basic Power Negotiation process between a Source and a Sink. The Source (left) and Sink (right) are separated by a vertical dashed line. The process involves several steps: 1. The Source sends its capabilities (Source Cap (PDOs): 5v@3A, 9v@3A, 15v@3A, 20v@5A) to the Sink. 2. The Sink decides upon a power rule and sends a Request (RDO) (9v@1A) to the Source. 3. The Source checks if the request is possible and then sends an Accept/Reject message to the Sink. 4. If accepted, the Sink waits for the power supply to be ready. 5. The Source sends a Power Supply Ready (PS_READY) message to the Sink. 6. Finally, the Sink supplies power, which is slewed and ready for load.</p> </div> <div data-bbox="468 847 1986 1343"> <p>Figure 1: Basic Power Negotiation</p> <p>https://acroname.com/blog/basics-usb-power-delivery-negotiations</p> <p>6.4.2.1 Object Position</p> <p>The value in the Object Position field shall indicate which object in the <i>Source_Capabilities</i> Message or <i>EPR_Source_Capabilities</i> Message the RDO refers to. The value 0001b always indicates the 5V Fixed Supply PDO as it is the first object following the <i>Source_Capabilities</i> Message or <i>EPR_Source_Capabilities</i> Message Header. The number 0010b refers to the next PDO and so forth.</p> <p>The value in Object positions 0001b-0111b shall only be used to refer to SPR PDOs. SPR PDOs may be requested by either a <i>Request</i> or an <i>EPR_Request</i> Message. Object positions 1000b-1101b shall only be used to refer to EPR PDOs. EPR PDOs shall only be requested by an <i>EPR_Request</i> Message. If the Object Position field in a <i>Request</i> message contains a value greater than 0111b, the Source shall send <i>Hard Reset</i> Signaling.</p> <p>USB PD R3 1 V1.7 2023-01</p> </div>
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Claims	Identification
the lines the second voltage for supplying power.	<p>2.3.5 USB PD Communications</p> <p><u>USB Power Delivery</u> is a feature on products (hosts, hubs, and devices). USB PD communications is used to:</p> <ul style="list-style-type: none"> • establish power contracts that allow voltage and current beyond existing USB data bus specifications, • change the port sourcing VBUS, • <u>change the port sourcing VCONN,</u> • swap DFP and UFP roles, and • communicate with cables. <p>The USB PD Bi-phase Mark Coded (BMC) communications are carried on the CC wire of the USB Type-C cable.</p> <p>Universal Serial Bus Type-C Cable and Connector Specification Release 2.3 at 38; Release 2.0 at 35.</p> <p>VCONN VCONN is applied to the unused CC pin to supply power to the local plug. Refer to Section 4.4.3 for the functional requirements for VCONN.</p> <p>Universal Serial Bus Type-C Cable and Connector Specification Release 2.3 at 144; Release 2.0 at 139.</p>